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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/648,908	08/27/2003	Scott J. Brabec	P0009676.00	4394
27581 MEDTRONIC,	7590 07/07/200 INC.	EXAMINER		
710 MEDTRON	NIC PARKWAY NE	ALTER, ALYSSA MARGO		
MINNEAPOLIS, MN 55432-9924			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)	
		10/648,908	BRABEC ET AL.	
		Examiner	Art Unit	
		Alyssa M. Alter	3762	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS INSTRUCTION OF THE MAILING DEPICTION OF THE MAILING	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timustill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	1. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)⊠	Responsive to communication(s) filed on <u>16 Ma</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dienoeit	ion of Claims			
5)⊠ 6)⊠ 7)⊠ 8)□ Applicat 9)□ 10)⊠	Claim(s) 1,3-5,7-10,12, 14-25 and 27-36 is/are 4a) Of the above claim(s) is/are withdraw Claim(s) 1,3-5,8-10,14,15 and 17-22 is/are allo Claim(s) 12,16,23-25 and 27-35 is/are rejected Claim(s) 7 and 36 is/are objected to. Claim(s) are subject to restriction and/or ion Papers The specification is objected to by the Examiner The drawing(s) filed on 27 August 2003 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction.	vn from consideration. pwed. r election requirement. r. a)⊠ accepted or b)□ objected in abeyance. See ion is required if the drawing(s) is objected if the drawing(s) is objected.	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).	
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
12)□ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
2) Notice 3) Information	et(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	nte	

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DETAILED ACTION

Response to Arguments

Applicant's arguments and amendments, filed March 16, 2009, in regards to claims 1, 3-5, 7-10, 14-15, 17-22 and 36, have been fully considered and are persuasive. Therefore, the rejections of these claims have been withdrawn.

Additionally, the Applicant's arguments have been fully considered in regards to claims 23-25 and 27-35 but they are not persuasive.

The Applicants arguments are directed towards independent claim 1 and do not clearly address the limitations of claim 23. Therefore, the Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references. Therefore, claims 23-25 and 27-35 remain rejected under Mulier et al. as previously presented.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

1. Claims 12 and 16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed,

had possession of the claimed invention. The embodiment in accordance with claim 1 is not described with an extendable helix, as recited in claims 12 and 16.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claim 12 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 12 depends on a rejected base claim, claim 11. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 23-25 and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Mulier et al. (US 5,906,613). Mulier et al. discloses a lead with a ring electrode and a helical electrode, as seen in figure 10, which dispenses Ringer's solution, which is a saline solution, or another conductive solution.

As to claim 23, figure 10 depicts a lead with a proximal and distal end, a conductor 524 and an insulating sheath 500. The helical electrode 502 is the conductive structure and first electrode surface. Since the helical electrode dispensed Ringer's solution, the helix electrode is considered to be a closed cavity, in order to transport the

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fluid to the desired location. The distal end wall is the flat surface of the plastic cap 504 that faces the conductor 524. The plastic cap 504 as seen in figure 8 and 10 creates a closed cavity within the intermediate catheter tube 522. The insulative housing is the plastic cap 504 that circumscribes the second electrode surface, ring electrode 520, and has a port where the first electrode 502 is located. Also, since the Ringer's solution is dispensed from the helix, it is in intimate contact with the first electrode surface. In addition, the helix can have an insulated sheath as disclosed by Mulier et al. in col. 6, lines 11-16, thus creating an insulated helical fixation member.

Mulier et al. further discloses in col. 2, lines 12-30, that Ringer's solution can contribute to a wider affected area. Therefore an increase in affected area would reduce the current density since current density equals current flow divided by area (current density= current flow/area or J = I/A). As such, the helical electrode produces a lower current density than the ring electrode.

As to claims 25, since the second electrode 520 protrudes from the plastic cap 504 and the plastic cap 504 has the port disposed within the center, the examiner considers the second electrode to protrude from the port.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mulier et al. (US 5,906,613) or in the alternative Mulier et al. (US 5,906,613). Mulier et al. discloses the claimed invention but does not disclose expressly the conduction structure of the first electrode being greater or equal 10 mm². It would have been an obvious matter of design choice to a person of ordinary skill in the art to modify the conduction structure of the first electrode as taught by Mulier et al., with the range of greater or equal 10 mm², because Applicant has not disclosed the range provides an advantage, is used for a particular purpose, or solve a stated problem. One of ordinary skill in the art, furthermore, would have expected the Applicant's invention to perform equally well with the conductive structure of the first electrode as taught by Mulier et al., since such a modification to the size of the electrode would be determined on an individual basis to meet specific patient needs.

Therefore, it would have been an obvious matter of design choice to modify conductive structure to obtain the invention as specified in the claim(s).

As to claim 29, Mulier et al. discloses the claimed invention but does not disclose expressly the conductive medium being a hydrogel. It would have been an obvious matter of design choice to a person of ordinary skill in the art to modify saline solution as taught by Mulier et al., with the hydrogel, because Applicant has not disclosed the specific compositions provides an advantage, is used for a particular purpose, or solve a stated problem. One of ordinary skill in the art, furthermore, would have expected the Applicant's invention to perform equally well with the saline solution as taught by Mulier et al., because both mediums are in electrical contact with the electrodes, are disposed

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within the lead cavity and are capable of providing the predictable results of conducting electrical current.

Therefore, it would have been an obvious matter of design choice to modify conductive medium to obtain the invention as specified in the claim(s).

2. Claims 31-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mulier et al. (US 5,906,613) or in the alternative Mulier et al. (US 5,906,613) in view of Gates (US 5,408,744). Mulier et al. discloses the claimed invention but does not disclose expressly the electrode surface composition. It would have been an obvious matter of design choice to a person of ordinary skill in the art to modify the electrode surface as taught by Mulier et al., with the platinum black particles, iridium-oxiode, ruthenium-oxide, titanium-nitride, because Applicant has not disclosed the specific compositions provides an advantage, is used for a particular purpose, or solve a stated problem. One of ordinary skill in the art, furthermore, would have expected the Applicant's invention to perform equally well with the electrode surface as taught by Mulier et al., because both electrodes are compatible with the human body and therefore, capable of being used within an implantable medical device, such as a lead.

Therefore, it would have been an obvious matter of design choice to modify electrode surface composition to obtain the invention as specified in the claim(s).

In the alternative, Mulier et al. discloses the claimed invention except for the electrode surface composition. Gates teaches that it is known to utilize platinum black, titanium, tantalum, iridium oxides and nitrides as set forth in column 7, lines 50-63. It would have been obvious to one having ordinary skill in the art at the time the invention

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was made to modify the electrode surface as taught by Mulier et al. with the electrode surface composition as taught by Gates, since it was known in the art that the compositions are all electrically conductive materials used for electrode surfaces and can therefore be altered to meet specific patient needs. In addition, it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin,* 125 USPQ 416 (See MPEP 2144.07)

3. Claims 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mulier et al. (US 5,906,613) in view of Altman et al. (US 6,086,582). Mulier et al. discloses the claimed invention except for the steroid-loaded monolithic controlled release device (MCRD). Altman et al. teaches that it is known to dispense steroid-based drugs slowly through a lead, as disclosed in col. 3, lines 33-37. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the dispensed fluid as taught by Mulier et al. with the drug delivery means as taught by Altman et al, in order to provide the predictable results of modifying the treatment based on specific patients need and to facilitate localized drug delivery.

Claim Objections

- 1. Claim 7 is objected to because of the following informalities: "it" in line two should be removed. The phrase is "within it the" is unclear. Appropriate correction is required.
- 2. Claim 36 is objected to because of the following informalities: "s" in line two should be removed. The phrase is "a s first" is unclear. Appropriate correction is required.

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Allowable Subject Matter

1. Claims 1, 3-5, 8-10, 14-15 and 17-22 are allowed. Claims 7 and 36 are objected to for minor informalities but otherwise is considered allowable.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alyssa M. Alter whose telephone number is (571)272-4939. The examiner can normally be reached on M-F 8am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on (571) 272-4955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George R Evanisko/ Primary Examiner, Art Unit 3762

/Alyssa M Alter/ Examiner Art Unit 3762